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- 1** **Quality engineering: How one product team met the quality challenge** 77%


 Mark Changfoot , Ted Fines , Rod Lawson , Nick Lecic , Pat Morenz , Doug Mortson , Pramod Patel , Shelagh Roberts , Sheik Sahib , Rollie Sing

**Proceedings of the 1993 conference of the Centre for Advanced Studies on Collaborative research: software engineering - Volume 1** October 1993

A primary goal of product development teams today is to ensure that quality is integral to everything they do. This article describes the initiatives the members of one product development team undertook to incorporate quality into every phase of their development process. The product was new, the team was new, and there was a strong commitment from every member of the team to prove just how much one product team could do to ensure the quality of its product. Development methodologies, process ma ...
- 2** **A tour through cedar** 77%


 Warren Teitelman

**Proceedings of the 7th international conference on Software engineering** March 1984
- 3** **Industry track papers: From run-time behavior to usage scenarios: an interaction-pattern mining approach** 77%

 Mohammad El-Ramly , Eleni Stroulia , Paul Sorenson

**Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining** July 2002

A key challenge facing IT organizations today is their evolution towards adopting e-business practices that gives rise to the need for reengineering their underlying software systems. Any reengineering effort has to be aware of the functional requirements of the subject system, in order not to violate the integrity of its intended uses. However, as software systems get regularly maintained throughout their lifecycle, the documentation of their requirements often become obsolete or get lost. To a ...
- 4** **A structural view of the Cedar programming environment** 77%

 Daniel C. Swinehart , Polle T. Zellweger , Richard J. Beach , Robert B. Hagmann

**ACM Transactions on Programming Languages and Systems (TOPLAS)** August 1986

Volume 8 Issue 4

This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

**5** Reverse engineering: Recovering software requirements from system-user interaction traces 77%



Mohammad El-Ramly , Eleni Stroulia , Paul Sorenson

**Proceedings of the 14th international conference on Software engineering and knowledge engineering** July 2002

As software systems age, the requirements that motivated their original development get lost. Requirements documentation is unavailable or obsolete. Recapturing these requirements is critical for software reengineering activities. In our CelLEST process we adopt a data-mining approach to this problem and attempt to discover patterns of frequent similar episodes in the sequential run-time traces of the legacy user-interface behavior. These patterns constitute operational models of the application ...

**6** Computing curricula 2001

77%



**Journal on Educational Resources in Computing (JERIC)** September 2001

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**1 The exception handling effectiveness of POSIX operating systems**

*Koopman, P.; DeVale, J.;*

Software Engineering, IEEE Transactions on , Volume: 26 , Issue: 9 , Sept. 2000  
 Pages:837 - 848

[\[Abstract\]](#)    [\[PDF Full-Text \(872 KB\)\]](#)    **IEEE JNL**

**2 Comparing the robustness of POSIX operating systems**

*Koopman, P.; DeVale, J.;*

Fault-Tolerant Computing, 1999. Digest of Papers. Twenty-Ninth Annual International Symposium on , 15-18 June 1999  
 Pages:30 - 37

[\[Abstract\]](#)    [\[PDF Full-Text \(492 KB\)\]](#)    **IEEE CNF**

**3 Speculative execution exception recovery using write-back suppression**

*Bringmann, R.A.; Mahlke, S.A.; Hank, R.E.; Gyllenhaal, J.C.; Hwu, W.W.;*

Microarchitecture, 1993. Proceedings of the 26th Annual International Symposium on , 1-3 Dec. 1993  
 Pages:214 - 223

[\[Abstract\]](#)    [\[PDF Full-Text \(804 KB\)\]](#)    **IEEE CNF**

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

Directory









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
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1. **Exceptions Detail Report**   
 ... thumbnail Trend **report** that shows the behavior of the leading **exception condition** for the **report** period ... of the leading **exception condition** during the **report** day. Determine how ...  
[www.concord.com/help/files/reports/health/charts/excptdtl.html](http://www.concord.com/help/files/reports/health/charts/excptdtl.html) - 12k - [Cached](#) - [More pages from this site](#)
2. **1 Overview (PDF)**   
 ... **condition** may be reported.6hOnly **report** informational **exception condition** on request: This method ... the target shallonly **report** the informational **exception condition** one time ...  
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3. **DISPOSITION REPORT - EXCEPTION 1039 (PDF)**   
 ... DISPOSITION REPORT - EXCEPTION 1039 Qwest OSS Evaluation Page 1 of 2Date: April 9, 2001 ... have an appropriate earliest **condition/status**; for example, its earliest. **condition/status** in ...  
[www.nrri.ohio-state.edu/oss/master/exceptions/e1039\\_final.pdf](http://www.nrri.ohio-state.edu/oss/master/exceptions/e1039_final.pdf) - 11k - [View as html](#) - [More pages from this site](#)
4. **Exceptions Detail Report**   
 ... The table describes each **exception condition** that caused **exception** points. The first row ... periods during the **report** day in which the **condition** causing the **exception** was not observed ...  
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5. **1 Overview (PDF)**   
 X3T10/94-190 revision 31**Exception** Handling Selection Mode Page Proposal Date: Nov. ... indicates that the target shall only **report** the informational **exception condition** one time ... vendor specific.6hOnly **report** informational **exception condition** on request: This method ...  
[www.t10.org/ftp/t10/document.94/94-190r3.pdf](http://www.t10.org/ftp/t10/document.94/94-190r3.pdf) - 22k - [View as html](#) - [More pages from this site](#)
6. **EXCEPTION 3065—DISPOSITION REPORT (PDF)**   
 ... **EXCEPTION 3065—DISPOSITION REPORT** Qwest OSS Evaluation 11/08/2001 ... conditions, Qwest generates an Abnormal. Network **Condition Report (ANCR)** that provides the details of each ...  
[www.nrri.ohio-state.edu/oss/master/exceptions/nov/e3065kpmg\\_final\\_report.pdf](http://www.nrri.ohio-state.edu/oss/master/exceptions/nov/e3065kpmg_final_report.pdf) - 76k - [View as html](#) - [More pages from this site](#)
7. **1099 Supplier Exceptions Report (Oracle Payables Help)**   
 ... Reporting Site, State, and **Exception Condition**. The **report** includes a brief description of each **exception** type ... Payables sorts this **report** by **exception condition** and supplier name ...  
[www.lexington.com/intranet/leapdocs/leap/ora\\_gen\\_lib/us/ap/1099rp06.htm](http://www.lexington.com/intranet/leapdocs/leap/ora_gen_lib/us/ap/1099rp06.htm) - 9k - [Cached](#) - [More pages from this site](#)

8. **Exception Reporting (PDF)**   
 Creating Filters With Range and **Exception Reporting** Intermediate  
 ImpromptuPage: 7-1October, 1999**Exception Reporting****Exception** reporting  
 provides a powerful way to identify exceptional data in your **report**. ... parts to  
**exception** reporting: setting up the **condition** to analyze the data in the **report**  
 and setting up ...  
[www.mmrs.state.ms.us/MERLIN/creating\\_filters.pdf](http://www.mmrs.state.ms.us/MERLIN/creating_filters.pdf) - 185k - [View as html](#)
  
9. **Exception Reporting (PDF)**   
 ... Filters With Range and **Exception Reporting**. Intermediate Impromptu  
 September ... parts to **exception** reporting: setting up the **condition** to analyze the  
 data in the **report** and setting ...  
[www.mmrs.state.ms.us/MERLIN/Creating%20Filters%20with%20Range.pdf](http://www.mmrs.state.ms.us/MERLIN/Creating%20Filters%20with%20Range.pdf) - 206k  
 - [View as html](#)
  
10. <http://uebb.cs.tu-berlin.de/papers/courses/ekp/POPART/utilities/exceptions.lsp>   
 All cross checking will be within **exception**-response. All error-ids are actually  
 CLOS conditions.  
[uebb.cs.tu-berlin.de/papers/courses/ekp/POPART/utilities/exceptions.lsp](http://uebb.cs.tu-berlin.de/papers/courses/ekp/POPART/utilities/exceptions.lsp) - 14k -  
[Cached](#)
  
11. **Notis Reports**   
 ... J1064R01 Detailed Circulation **Exception Report**. J1064S01 Detailed  
 Transaction **Exception Report**. J1066R01 Item **Condition Reset Report** ...  
[www.ucc.uconn.edu/~libadm06/circ.html](http://www.ucc.uconn.edu/~libadm06/circ.html) - 5k - [Cached](#)
  
12. **Scioworks Camino**   
 Lesson 5: Using Declarative **Exception** Handlers. This lesson will cover the use of  
 Declarative **Exception** Handling. Overview. One of the most useful features in  
 Struts 1.1 is the introduction of declarative **exception** handlers. ... **exception** due  
 to some **exception condition**. The ReportException class is defined as follows:  
 package scioworks.camino.ex.horoscope.**report** ...  
[www.scioworks.net/camino\\_doc/manual/Tutorial/HoroscopeExample/L5\\_UsingDeclarativeExceptions.html](http://www.scioworks.net/camino_doc/manual/Tutorial/HoroscopeExample/L5_UsingDeclarativeExceptions.html)  
 - 21k - [Cached](#)
  
13. <http://www.cs.cmu.edu/afs/cs.cmu.edu/project/clisp/hackers/ram/mindy/runtime/debug.dylan>   
 module: dylan // // Copyright (C) 1994,  
 Carnegie Mellon University // All rights reserved. // ... **report**-problem (problem)  
 block () **report-condition**(problem); **exception** <error> puts("\nproblem ... putc  
 ('\n'); block () **report-condition**(cond); **exception** (problem :: <error>) puts ...  
[www.cs.cmu.edu/afs/cs.cmu.edu/project/clisp/hackers/ram/mindy/runtime/debug.dylan](http://www.cs.cmu.edu/afs/cs.cmu.edu/project/clisp/hackers/ram/mindy/runtime/debug.dylan)  
 - 6k - [Cached](#)
  
14. **03-0204, EXCEPTION-FILE Function and RAISE EC-I-O-xxxx**  
**(MICROSOFT WORD)**   
 Unisys Corporation. 19 August 2003 ISO Defect **Report** Document Number: J4/03-  
 0204 Page of 2 ... **DEFECT REPORT** The submitter of a defect **report** shall  
 complete the items in Part 2 and shall send ... file will be associated with that  
**exception condition**. It is not clear ...  
[www.cobolportal.com/j4/files/03-0204.doc](http://www.cobolportal.com/j4/files/03-0204.doc) - 29k - [View as html](#) - [More pages from this site](#)
  
15. **Intellectual Property The Small Picture (MICROSOFT POWERPOINT)**   
 IMPACT UIUC ECE 411 Computer Microarchitecture: Hardware and Software ©  
 1999, Wen-mei W. Hwu, All Rights Reserved. ... would not be used. the **exception**

**condition** is correctly ignored since the silent instruction ... IMPACT Lecture 14b  
Accurate **Exception Report** Each instruction has 2 parts: Non ...  
[www.engr.uiuc.edu/OCEE/webcourses/ece411/protected/notes/lecture14b.ppt](http://www.engr.uiuc.edu/OCEE/webcourses/ece411/protected/notes/lecture14b.ppt) -  
260k - [View as html](#)

16. **Overall Project % Complete Exception Report**   
Welcome Steve Hoffman. Home. Company Index. Overall Project % Complete  
**Exception Report**. Overall Project % Complete **Exception Report**. Company. cti.  
P & L. Western Region. Revenue Type. Revenue. Project **Condition**. Active State.  
**Report Date**  
[home.earthlink.net/~bohlandgraphics/deactivated/exception\\_report.html](http://home.earthlink.net/~bohlandgraphics/deactivated/exception_report.html) - [More](#)  
[pages from this site](#)
17. **Compaq Fortran**   
... An **exception condition**, as the term is used in this chapter, is an event, usually  
an error, that ... or failed, and to **report exception** conditions. **Condition** values  
are INTEGER (KIND ...  
[h18000.www1.hp.com/fortran/docs/vms-um/dfumchf.htm](http://h18000.www1.hp.com/fortran/docs/vms-um/dfumchf.htm) - 64k - [Cached](#)
18. **S-11 (MICROSOFT WORD)**   
... in the active state associated with it, the EC-REPORT-NOT-TERMINATED  
**exception condition** is set to exist ... GR5 talks about when the EC-REPORT-  
VARYING **exception condition** is set ...  
[www.ncits.org/tc\\_home/j4htm/m227/00-0568.doc](http://www.ncits.org/tc_home/j4htm/m227/00-0568.doc) - 31k - [View as html](#)
19. <http://www.xbrl.org/taxonomy/us/fr/rpt/seccert/2002-10-15/usfr-sec-cert-2002-10-15-elements.xls> (MICROSOFT EXCEL)   
Attestation of no untrue statement or omitted material fact - Attestation of no  
omitted material fact. ... Attestation that **report** fairly presents in all material  
respects financial **condition** and results of ... make the covered **report** not  
misleading but have this **exception** or 2) is ...  
[www.xbrl.org/taxonomy/us/fr/rpt/seccert/2002-10-15/usfr-sec-cert-2002-10-15-elements.xls](http://www.xbrl.org/taxonomy/us/fr/rpt/seccert/2002-10-15/usfr-sec-cert-2002-10-15-elements.xls)
20. **EXCD-1 Revised: 12/02/98 TABLE EXCD: CONDITION CODE -**  
**ACADEMIC EXCEPTION TABLE FIELDS TABLE NAME - UEXCD**  
(PDF)   
... **EXCEPTIONTABLE FIELDSTABLE NAME - UEXCDREPORT**.  
HEADERNAMESIZECHARENTRYAcademic **ExceptionCondition** Code1X ... ON-  
LINE SCREEN 4013Academic **Exception Condition** CodeEX, ELDESCRIPTION:  
This ...  
[webserv.adminsvc.temple.edu/admincs/isis%28WEB%29/SystemTables/excd.pdf](http://webserv.adminsvc.temple.edu/admincs/isis%28WEB%29/SystemTables/excd.pdf) -  
8k - [View as html](#)

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		<i>DB=USPT,PGPB; PLUR=YES; OP=ADJ</i>	
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<input type="checkbox"/>	L20	L6 and L10	111
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<input type="checkbox"/>	L19	L18 and remote\$	0
<input type="checkbox"/>	L18	L16 and debug\$	32
<input type="checkbox"/>	L17	L16 and (test near (suite or bed or script or case))	3
<input type="checkbox"/>	L16	display\$ near (error or (exception near condition))	3405
		<i>DB=USPT,PGPB; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L15	L14 and remote	76
<input type="checkbox"/>	L14	L13 and L7	185
<input type="checkbox"/>	L13	L12 or L11 or L10 or L9	7424
<input type="checkbox"/>	L12	display\$ near2 (exception near condition)	20
<input type="checkbox"/>	L11	display\$ near2 (exception near condition)	20
<input type="checkbox"/>	L10	display\$ near (error or (exception near condition))	7406
<input type="checkbox"/>	L9	display\$ near (fatal error or (exception near condition))	10
<input type="checkbox"/>	L8	fatal error or (exception near condition)	3899
<input type="checkbox"/>	L7	test near (suite or bed or script or case)	12065
<input type="checkbox"/>	L6	exception near handl\$	3497
		<i>DB=PGPB,USPT,USOC; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L5	L4 or I1 or I2 or I3	7181
<input type="checkbox"/>	L4	712/227,244.ccls.	818
<input type="checkbox"/>	L3	714/37-57.ccls.	5104
<input type="checkbox"/>	L2	710/66-68.ccls.	436
<input type="checkbox"/>	L1	717/124-131.ccls.	1256

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L23: Entry 1 of 7

File: USPT

Jul 29, 2003

US-PAT-NO: 6601192

DOCUMENT-IDENTIFIER: US 6601192 B1

TITLE: Assertion component in environment services patterns

DATE-ISSUED: July 29, 2003

### INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO		

US-CL-CURRENT: 714/38

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw Desc	In
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☐ 2. Document ID: US 6550057 B1

L23: Entry 2 of 7

File: USPT

Apr 15, 2003

US-PAT-NO: 6550057

DOCUMENT-IDENTIFIER: US 6550057 B1

TITLE: Piecemeal retrieval in an information services patterns environment

DATE-ISSUED: April 15, 2003

### INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO		

US-CL-CURRENT: 717/126; 700/80, 707/5, 717/101, 717/102, 717/108, 717/109, 717/113

### ABSTRACT:

A system, method and article of manufacture are provided for providing a warning upon retrieval of objects that are incomplete. An object is provided with at least one missing attribute. Upon receipt of a request from an application for the object access to the attributes of the object is allowed by the application. A warning is provided

upon an attempt to access the attribute of the object that is missing.

15 Claims, 195 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 123

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KNIC	Draw Desc	In
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☐ 3. Document ID: US 6502213 B1

L23: Entry 3 of 7

File: USPT

Dec 31, 2002

US-PAT-NO: 6502213

DOCUMENT-IDENTIFIER: US 6502213 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: System, method, and article of manufacture for a polymorphic exception handler in environment services patterns

DATE-ISSUED: December 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO		

US-CL-CURRENT: 714/49; 710/266, 710/268, 710/269

ABSTRACT:

A system, method and article of manufacture are provided for minimizing the amount of changes that need to be made to exception handling logic when new exceptions are added. Exceptions are organized into hierarchies in a polymorphic exception handler. A root of one of the hierarchies in which an exception occurs is caught. The exception is instructed to rethrow itself. The rethrown exception is caught and identified. A type of the rethrown exception is determined and a message is outputted indicating the type of the rethrown exception.

15 Claims, 195 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 123

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KNIC	Draw Desc	In
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☐ 4. Document ID: US 6477665 B1

L23: Entry 4 of 7

File: USPT

Nov 5, 2002

US-PAT-NO: 6477665

DOCUMENT-IDENTIFIER: US 6477665 B1

TITLE: System, method, and article of manufacture for environment services patterns in a

netcentric environment

DATE-ISSUED: November 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO		

US-CL-CURRENT: 714/39; 712/244

ABSTRACT:

A system, method and article of manufacture are provided for implementing environment services patterns. First, a successfulness of an operation is tested, wherein the operation has pre-conditions and post-conditions that must be satisfied for the operation to be successful. Then, there is an attempt to detect an orphaned server context. A common interface is created for exception handling. Requirements for such exception handling are also recorded to maintain a consistent error handling approach. Incoming requests are distributed amongst server components for optimizing usage of resources. Finally, the amount of changes that need to be made to exception handling logic are minimized when new exceptions are added.

18 Claims, 195 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 123

Full	Title	Citation	Front	Review	Classification	Date	Reference	Drawings	Abstract	Claims	KWIC	Draw Desc	Ir
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☐ 5. Document ID: US 6434628 B1

L23: Entry 5 of 7

File: USPT

Aug 13, 2002

US-PAT-NO: 6434628

DOCUMENT-IDENTIFIER: US 6434628 B1

TITLE: Common interface for handling exception interface name with additional prefix and suffix for handling exceptions in environment services patterns

DATE-ISSUED: August 13, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO		

US-CL-CURRENT: 714/48; 714/1, 714/15

ABSTRACT:

A system, method and article of manufacture are provided for creating a common interface for exception handling. Naming conventions of exceptions are determined. A prefix and/or a suffix is added to each exception interface name for indicating that the exception interface is an exception. Where an exception error occurred is indicated and a determination is made as to what caused the exception error. Context is provided as to

what was happening when the exception error occurred. Streaming of the exception is allowed to a common interface. An error message is outputted indicating that an exception error has occurred.

15 Claims, 195 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 123

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw Desc	In
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☐ 6. Document ID: US 6339832 B1

L23: Entry 6 of 7

File: USPT

Jan 15, 2002

US-PAT-NO: 6339832  
DOCUMENT-IDENTIFIER: US 6339832 B1

TITLE: Exception response table in environment services patterns

DATE-ISSUED: January 15, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO		

US-CL-CURRENT: 714/35; 710/266, 710/48, 714/50

ABSTRACT:

A system, method and article of manufacture are provided for recording exception handling requirements for maintaining a consistent error handling approach. An exception response table is provided in which an exception is recorded. The context of the exception is entered in the exception response table and a response for the exception is listed in the exception response table. The response is subsequently outputted upon the exception occurring in the context.

18 Claims, 195 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 123

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw Desc	In
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☐ 7. Document ID: US 5596733 A

L23: Entry 7 of 7

File: USPT

Jan 21, 1997

US-PAT-NO: 5596733  
DOCUMENT-IDENTIFIER: US 5596733 A

TITLE: System for exception recovery using a conditional substitution instruction which inserts a replacement result in the destination of the excepting instruction

DATE-ISSUED: January 21, 1997

INVENTOR-INFORMATION:

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US-CL-CURRENT: 712/244

ABSTRACT:

A conditional substitution instruction is provided in an instruction set of a computer system to correct exceptions occurring during run-time. The conditional substitution instruction can be executed concurrently in a pipelined computer system with a potentially excepting instruction, or simultaneously in a wide computer system. The conditional substitution instruction substitutes a default value for the result of the potentially excepting instruction if the potentially excepting instruction produces one or more specified exceptions.

20 Claims, 8 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

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Display Format:

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)